

Fig. 1

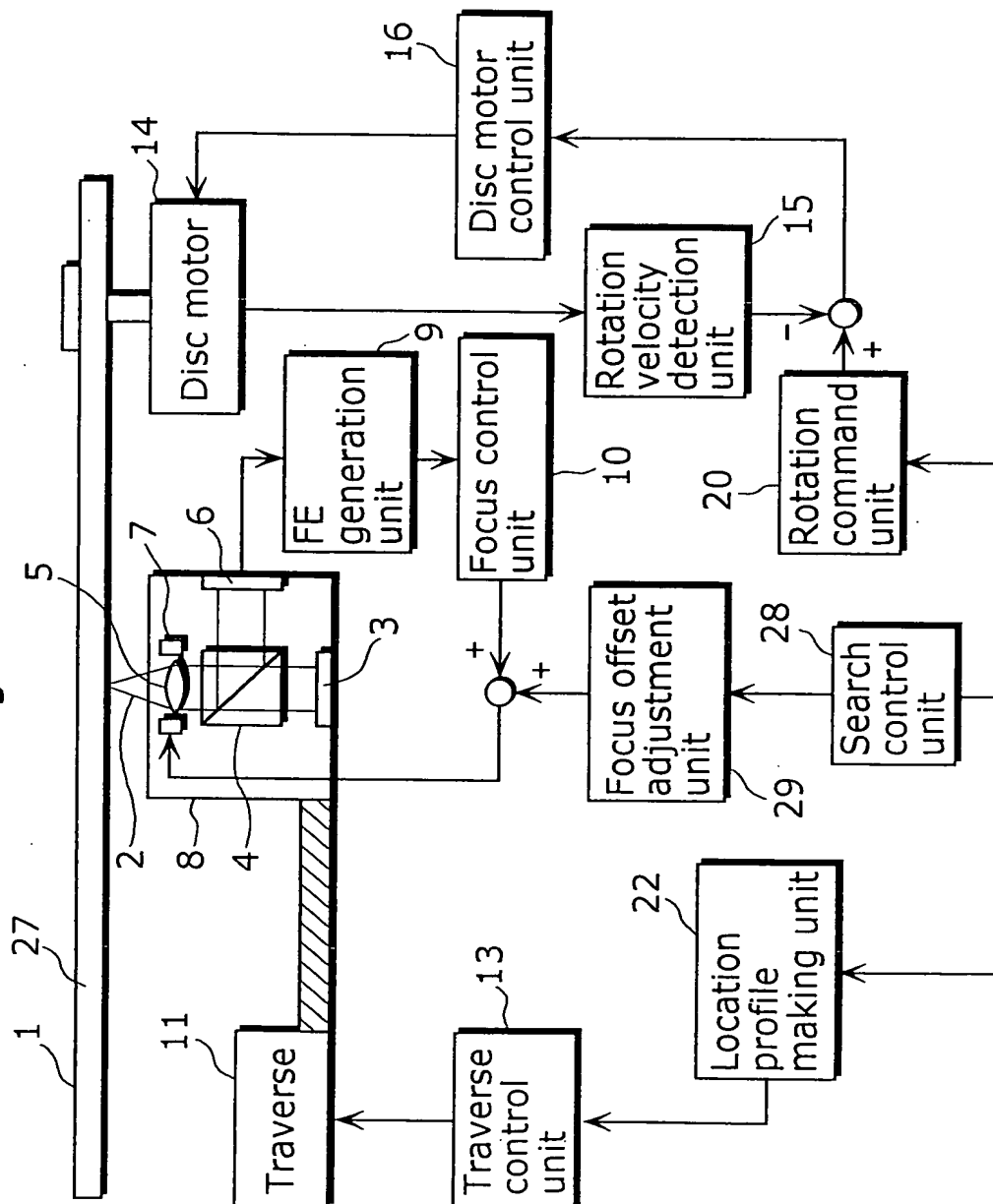
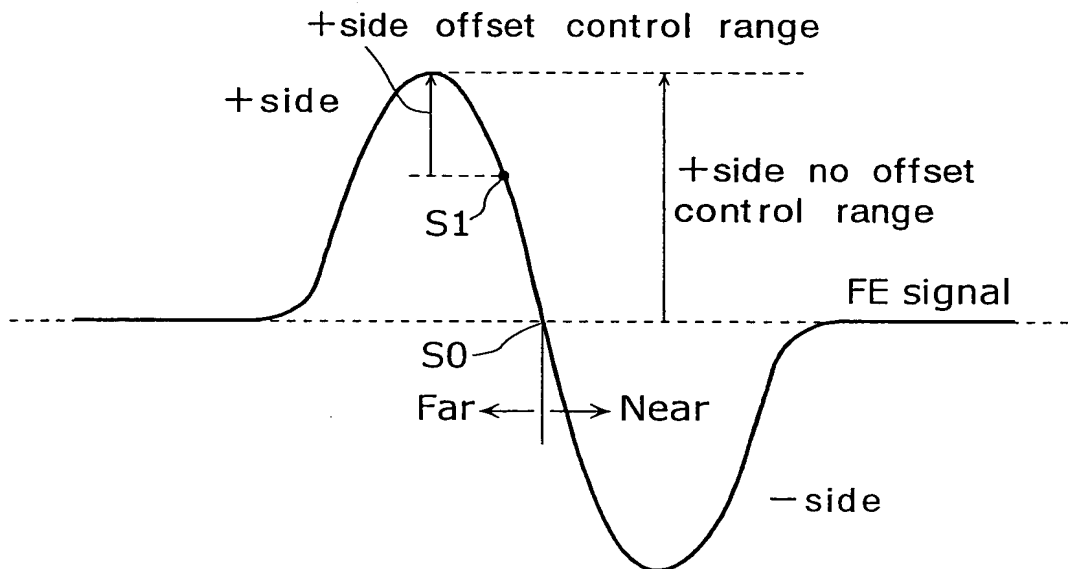


Fig. 2



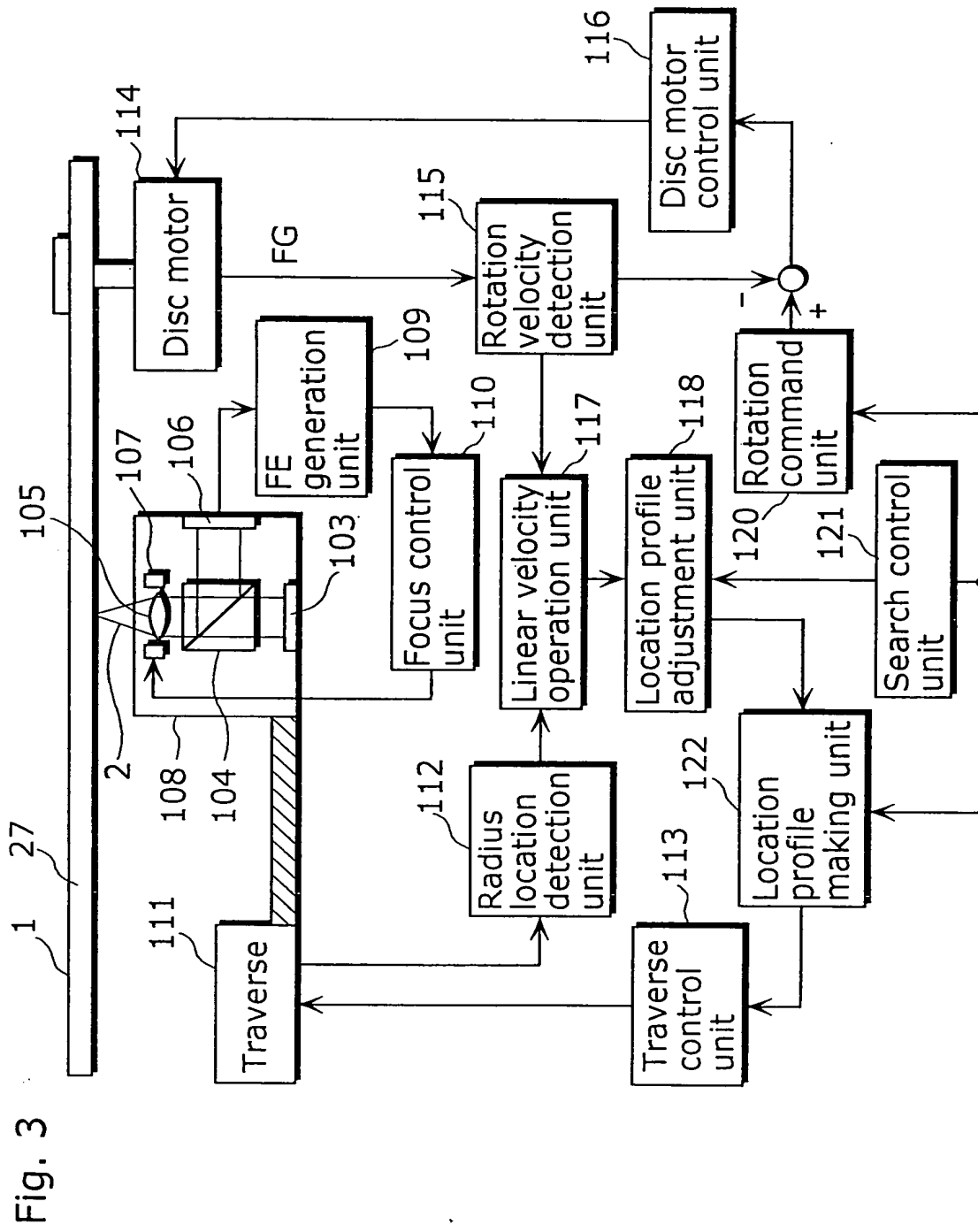


Fig. 4

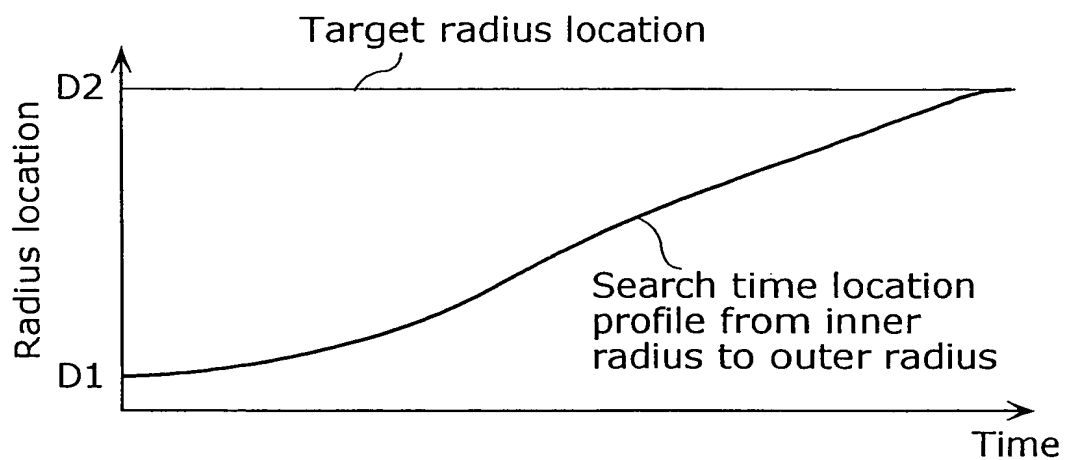


Fig. 5

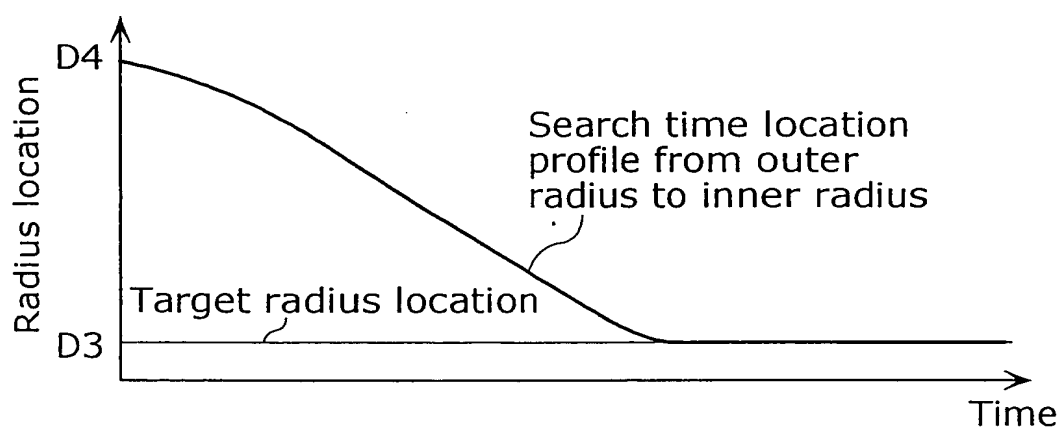


Fig. 6

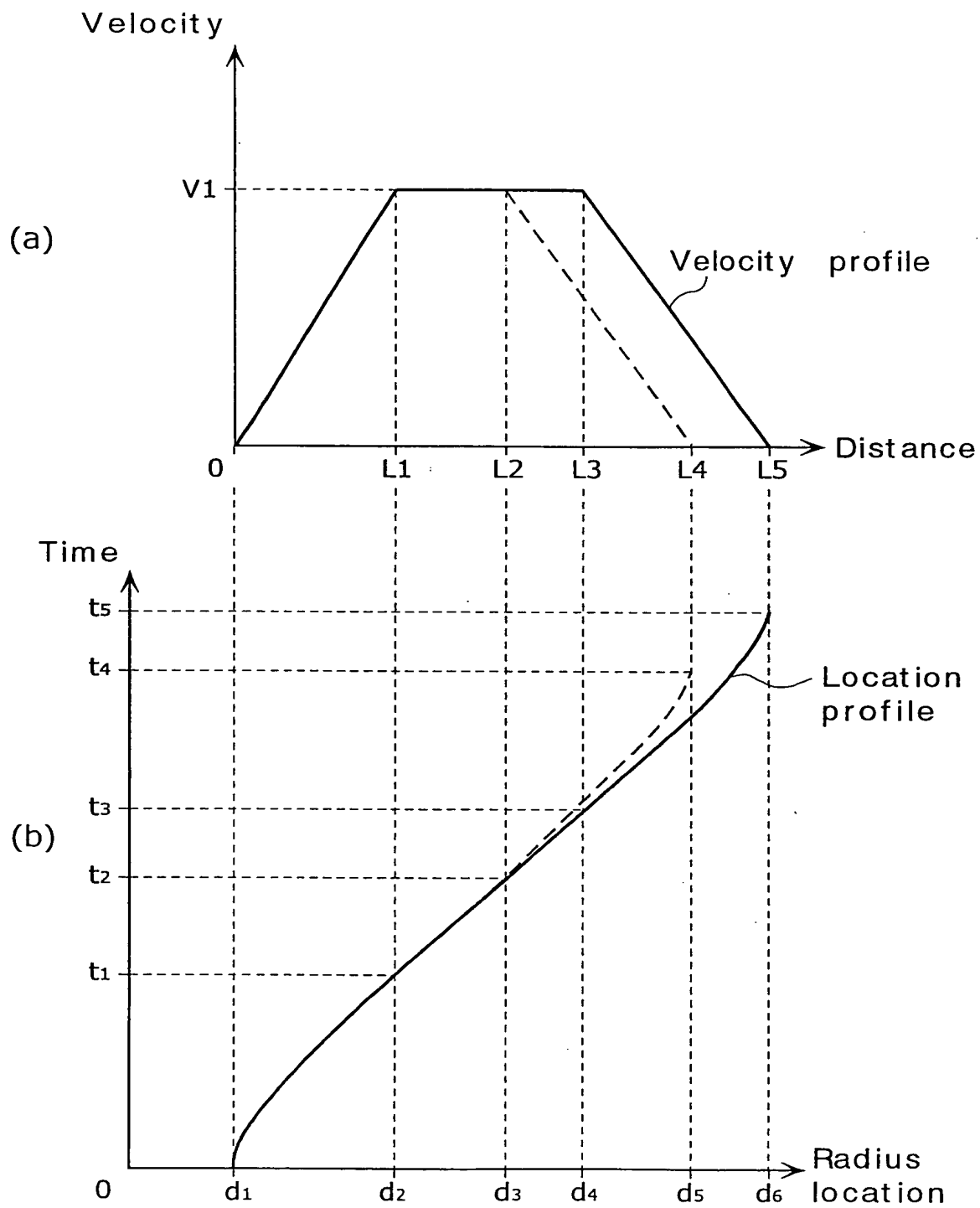


Fig. 7

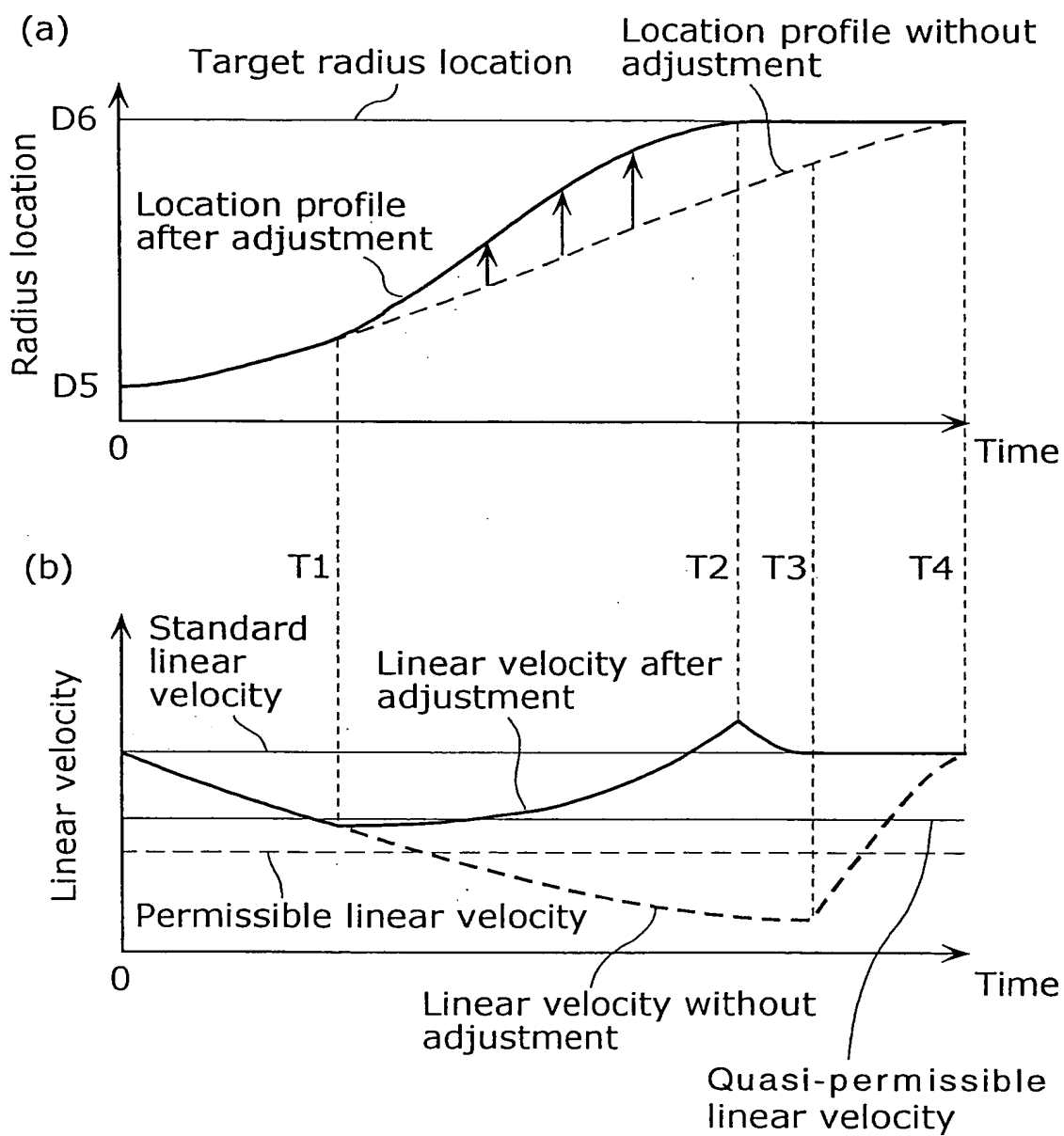


Fig. 8

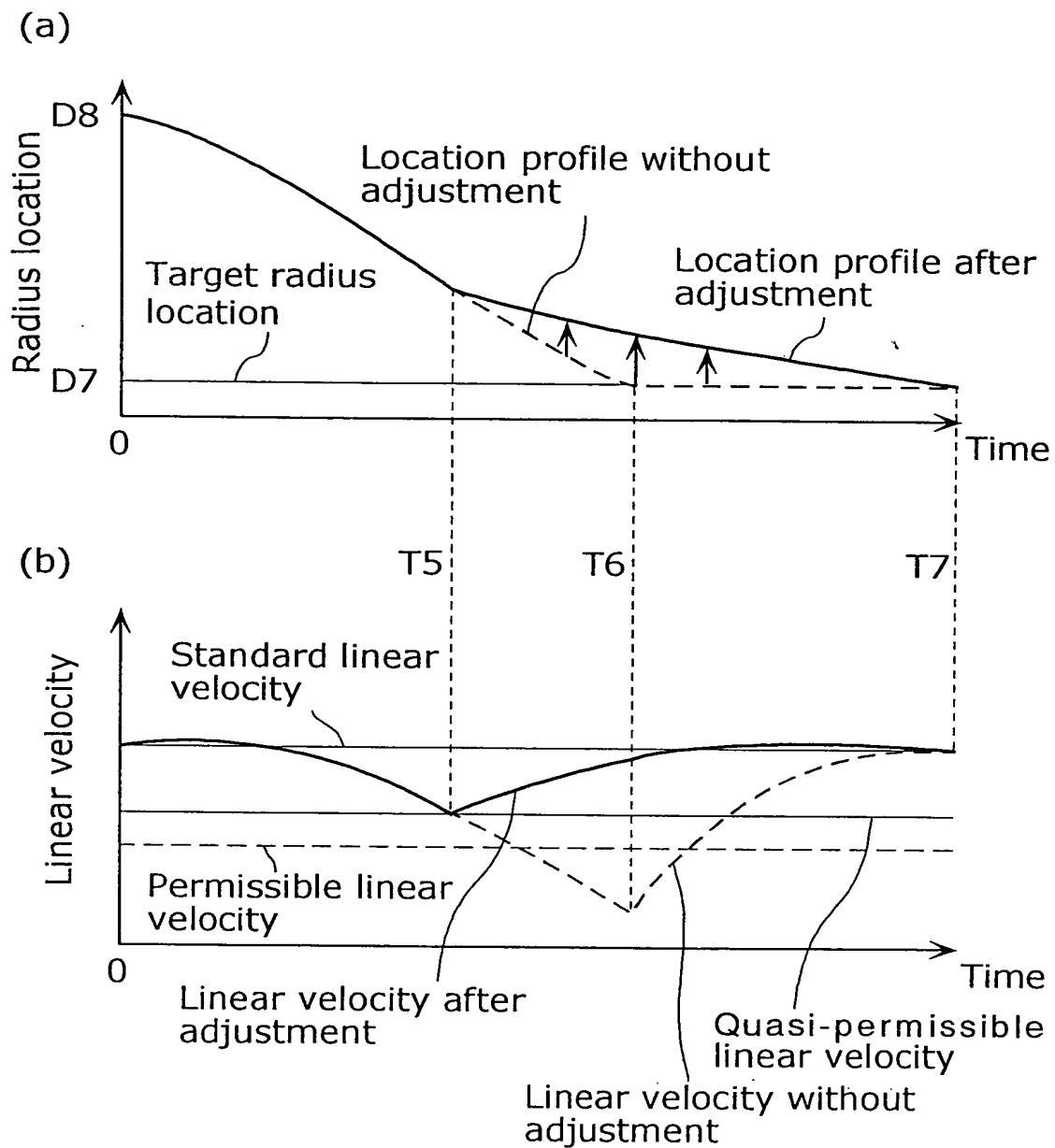


Fig. 9

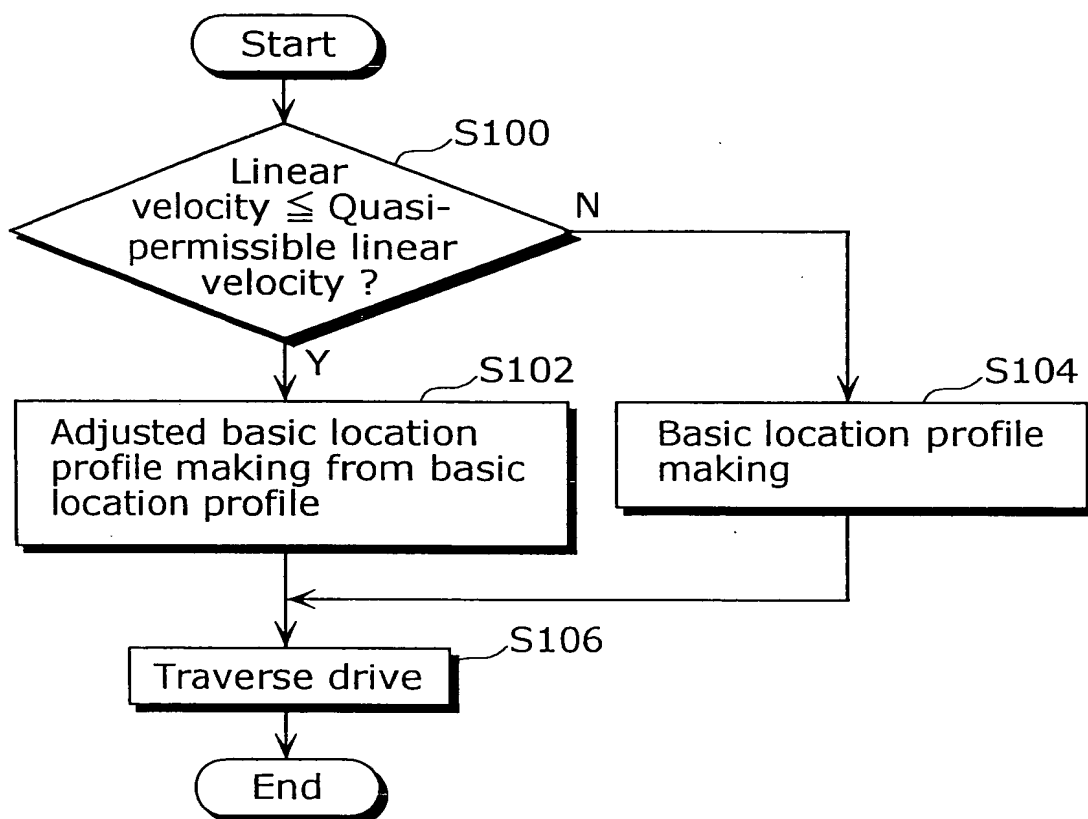
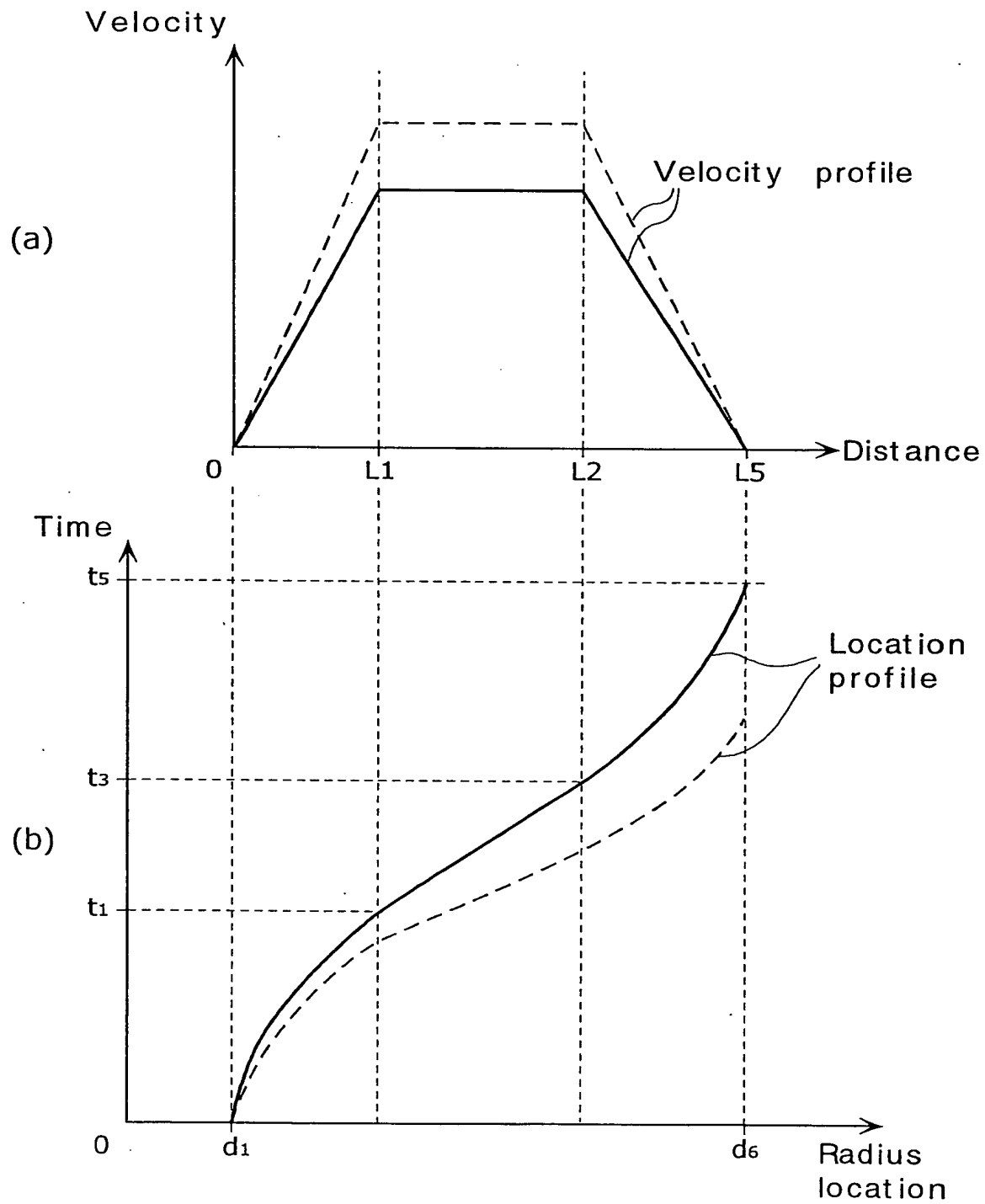




Fig. 10



The diagram illustrates a disc drive system with the following components and connections:

- Mechanical Assembly (Left):** Includes a **Traverse** unit (111) and a **Traverse control unit** (113). A **Radius location detection unit** (112) is connected to the traverse assembly. A **Focus control unit** (109') is connected to the optical head assembly. The optical head assembly (103) contains a lens (104), a mirror (106), and a detector (107). A **FE generation unit** (109) is connected to the detector. A **Disc motor** (114) is connected to the disc (105) via a spindle (108).
- Control and Processing Units (Right):**
  - Search control unit** (120) provides input to the **Rotation command unit** (121) and the **Location profile making unit** (122').
  - The **Rotation command unit** (121) outputs to a summing junction (+/-).
  - The **Rotation velocity detection unit** (115) outputs to the same summing junction.
  - The **Location profile making unit** (122') outputs to the **Location profile adjustment unit** (118').
  - The **Linear velocity operation unit** (117) outputs to the **Location profile adjustment unit** (118').
  - The **Location profile adjustment unit** (118') outputs to the **Rotation command unit** (121).
  - The **Disc motor control unit** (116) outputs to the **Disc motor** (114).
  - The **Type distinction unit** (201) outputs to the **Disc motor control unit** (116).
- Interconnections:**
  - The **Disc motor** (114) is connected to the **Rotation velocity detection unit** (115) via a feedback path (FG).
  - The **Search control unit** (120) is connected to the **Radius location detection unit** (112) and the **Location profile making unit** (122').
  - The **Traverse control unit** (113) is connected to the **Traverse** unit (111) and the **Radius location detection unit** (112).

Fig. 12

	BD	DVD	CD
Laser wavelength (nm)	405	650	780
Readout power (mW)	0.3	1	0.7
Standard linear velocity (m/s)	4.917	8.16~ 8.49	1.3

Fig. 13

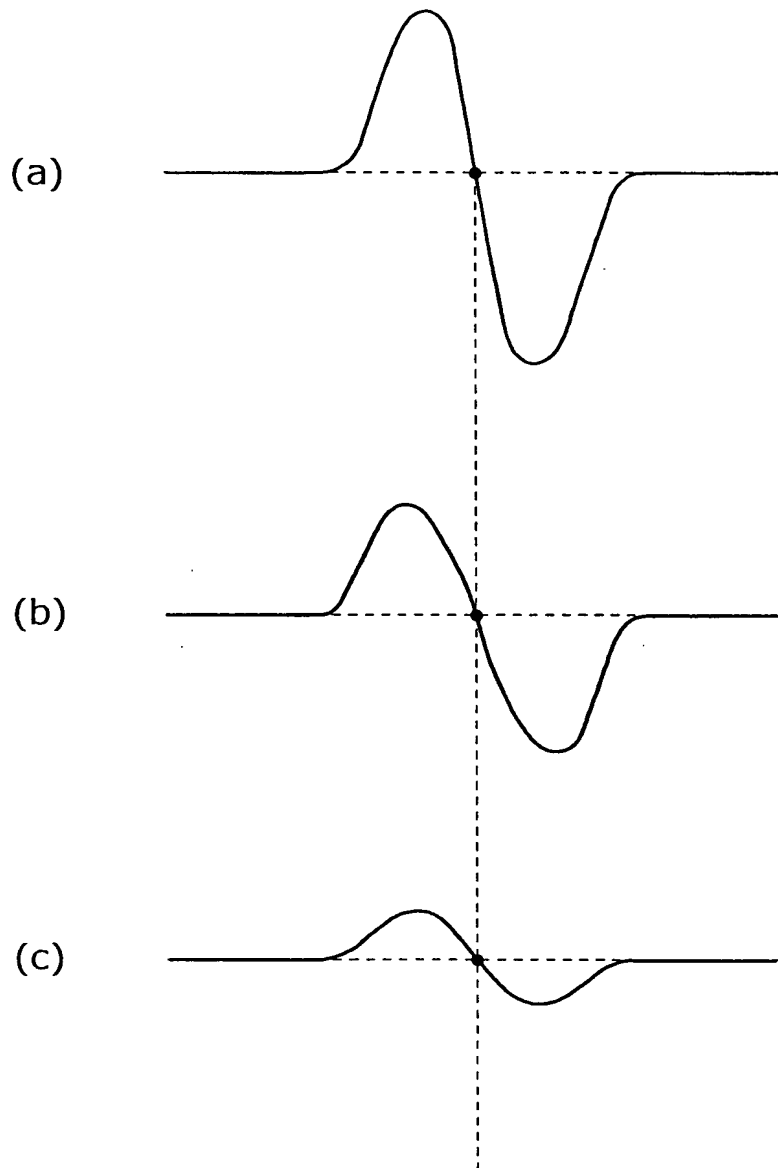


Fig. 14

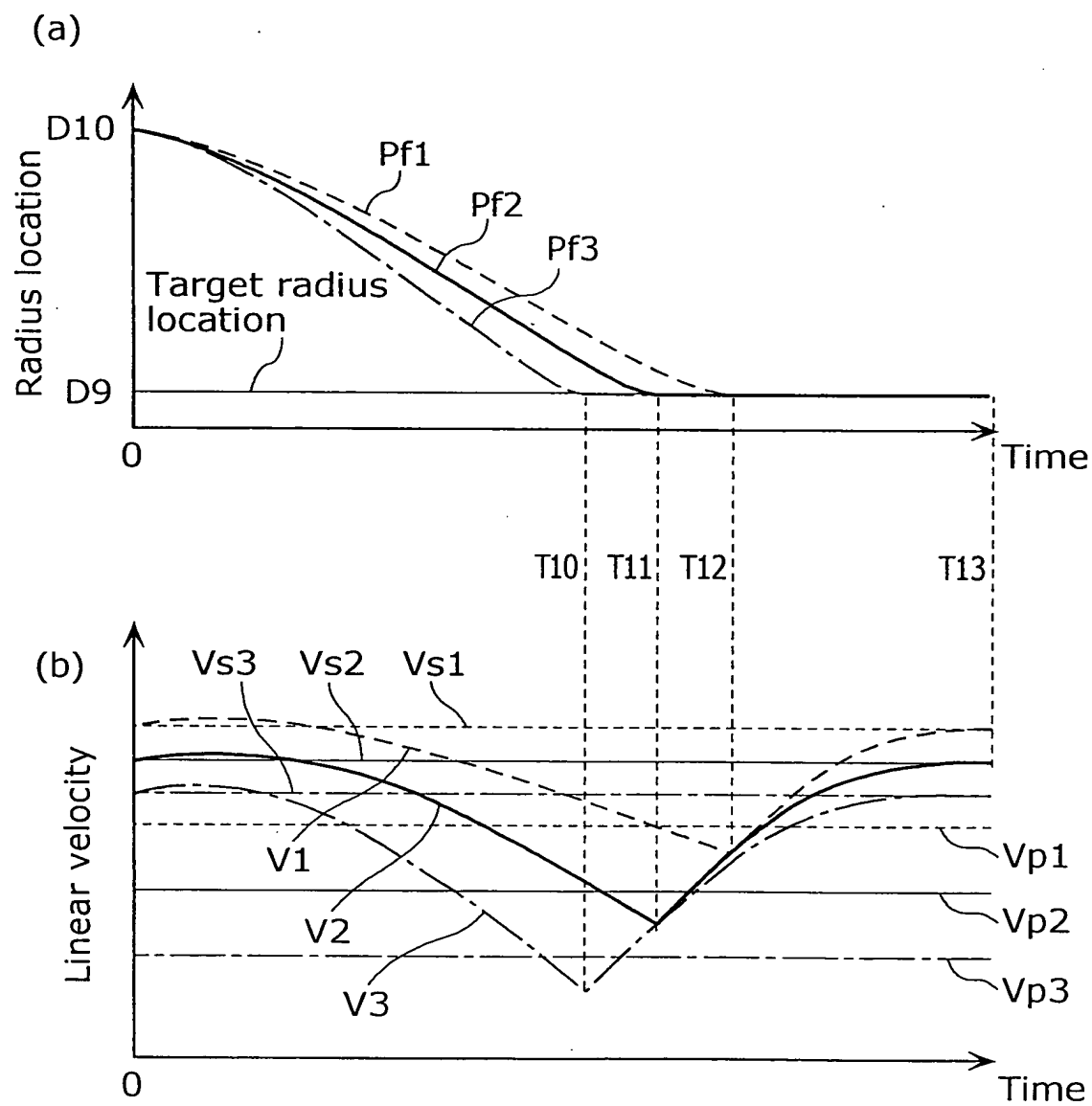


Fig. 15

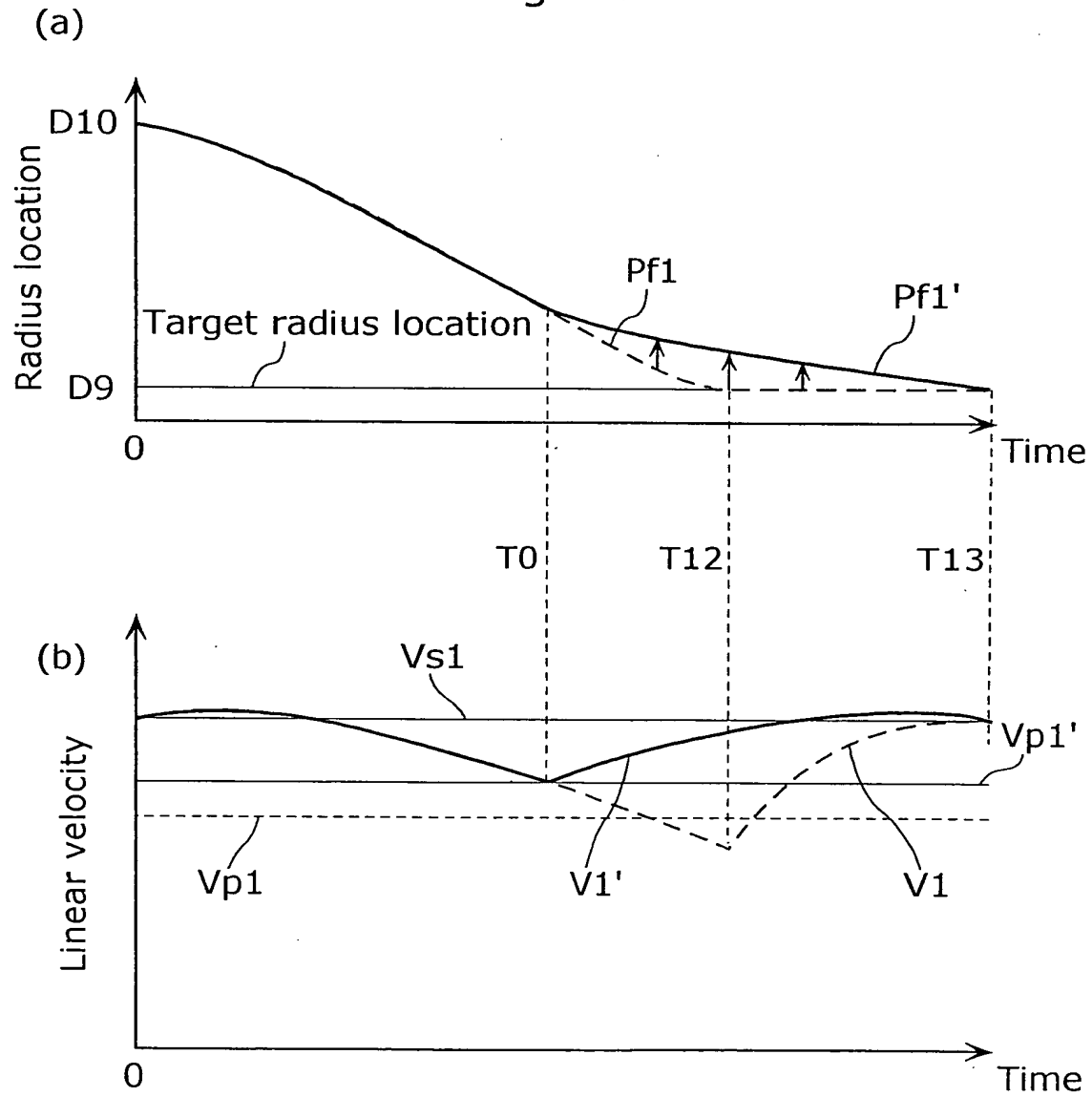


Fig. 16

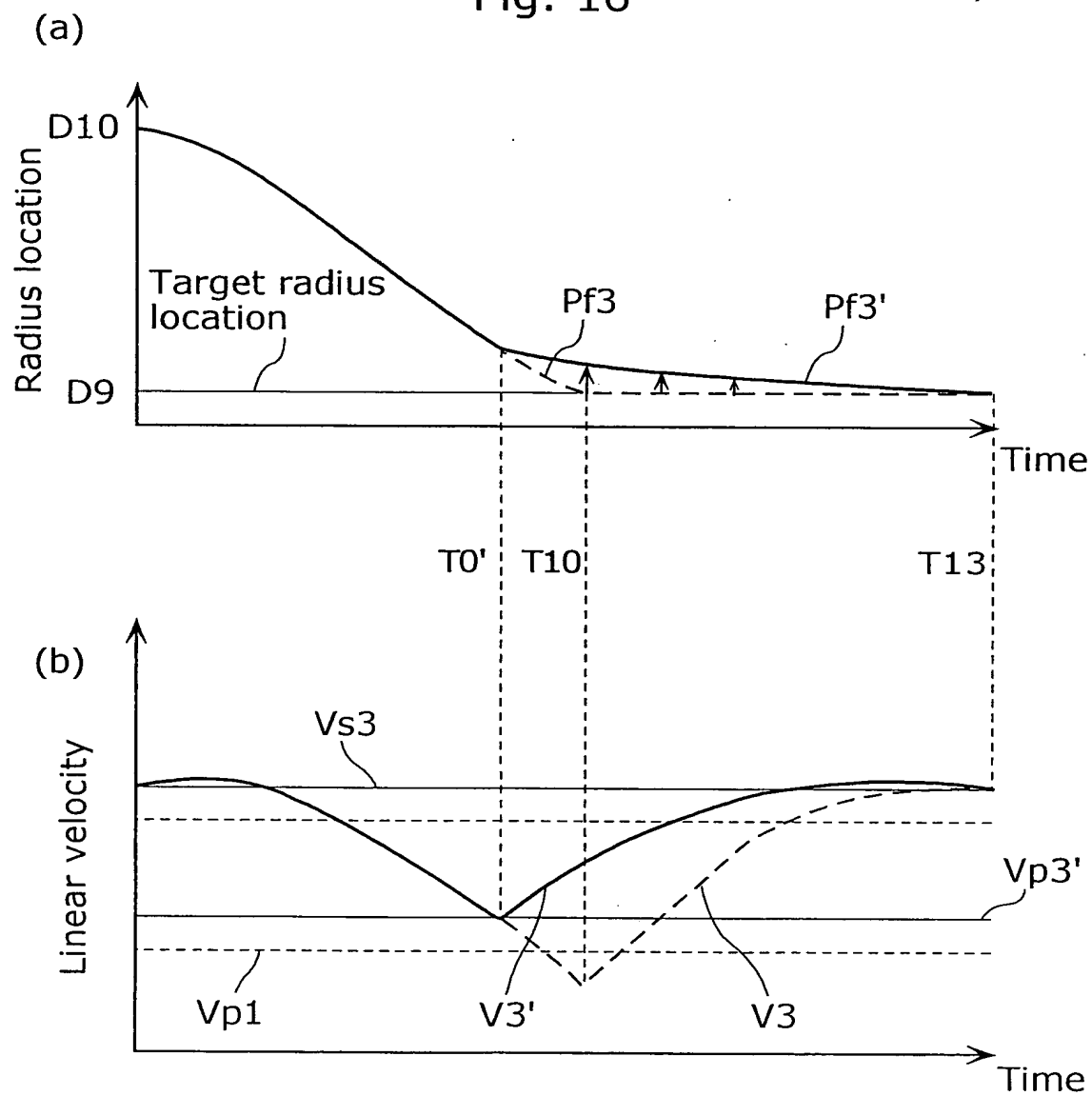
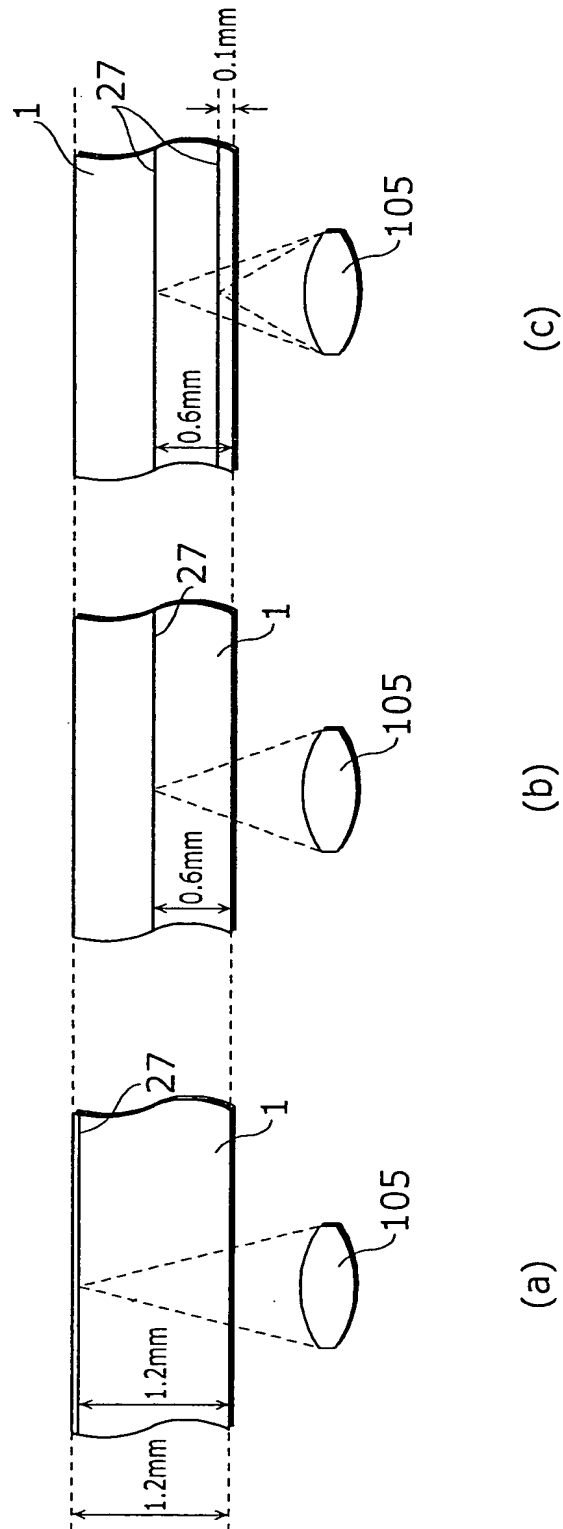


Fig. 17





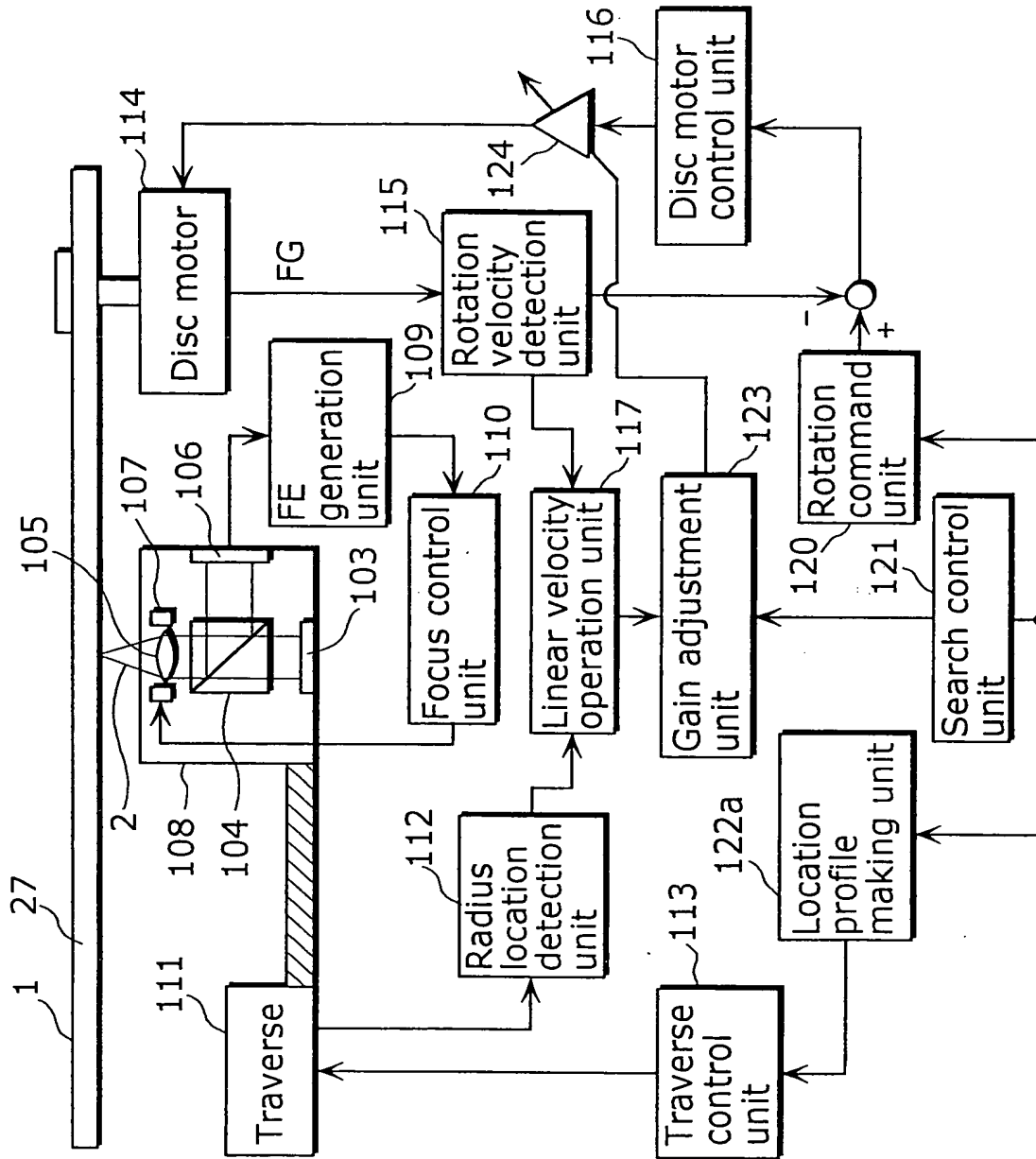


Fig. 18

Fig. 19

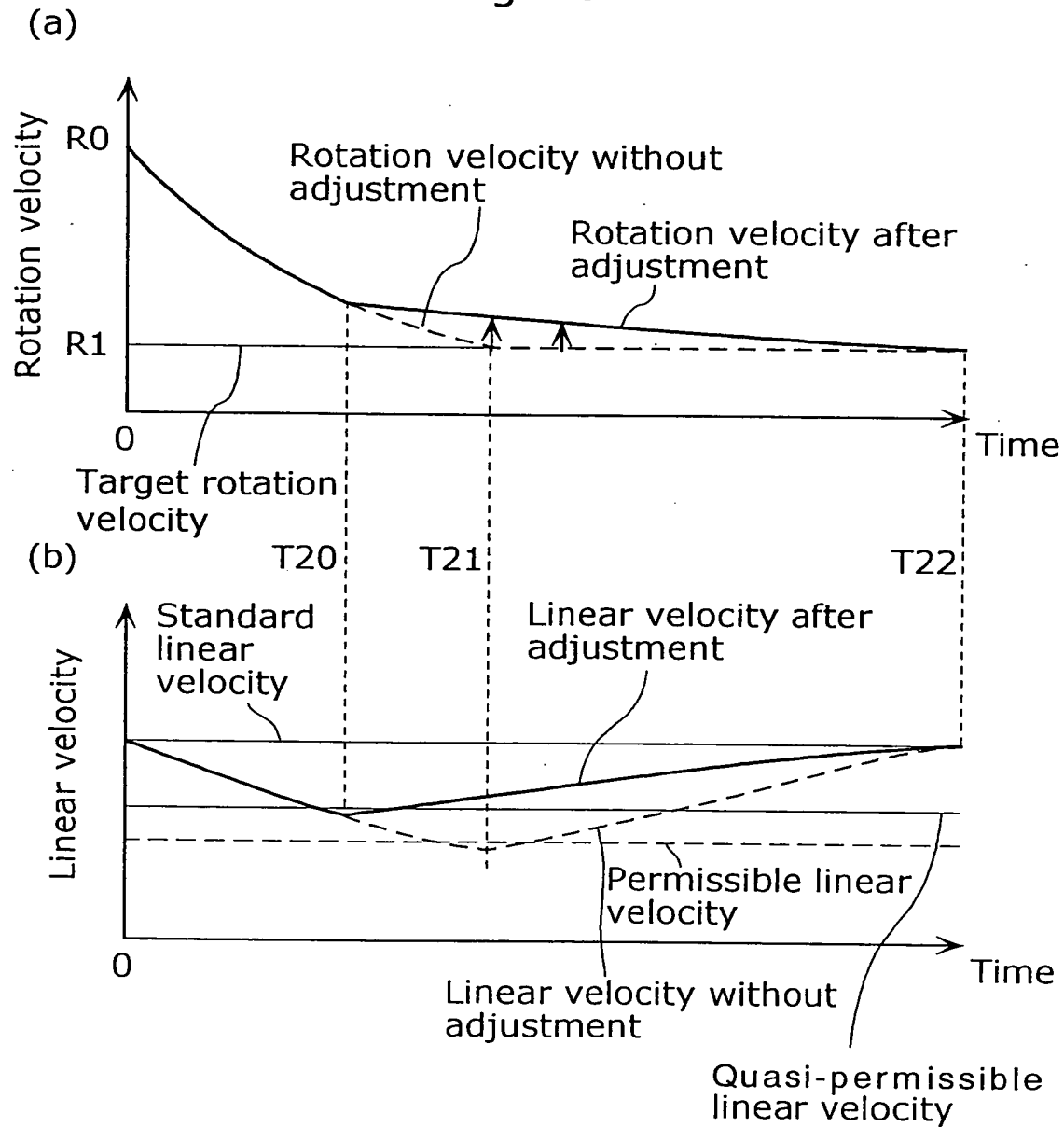


Fig. 20

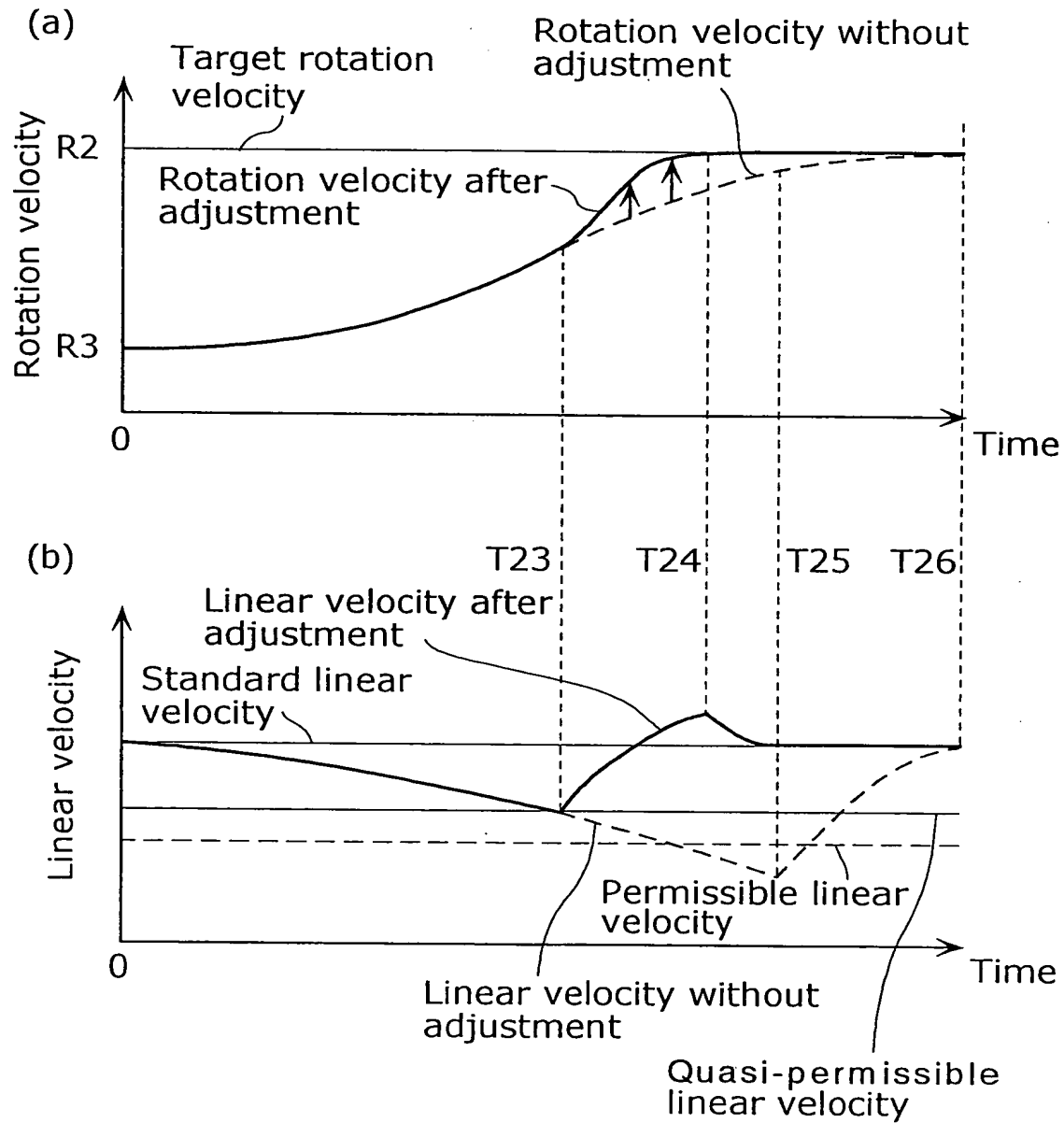
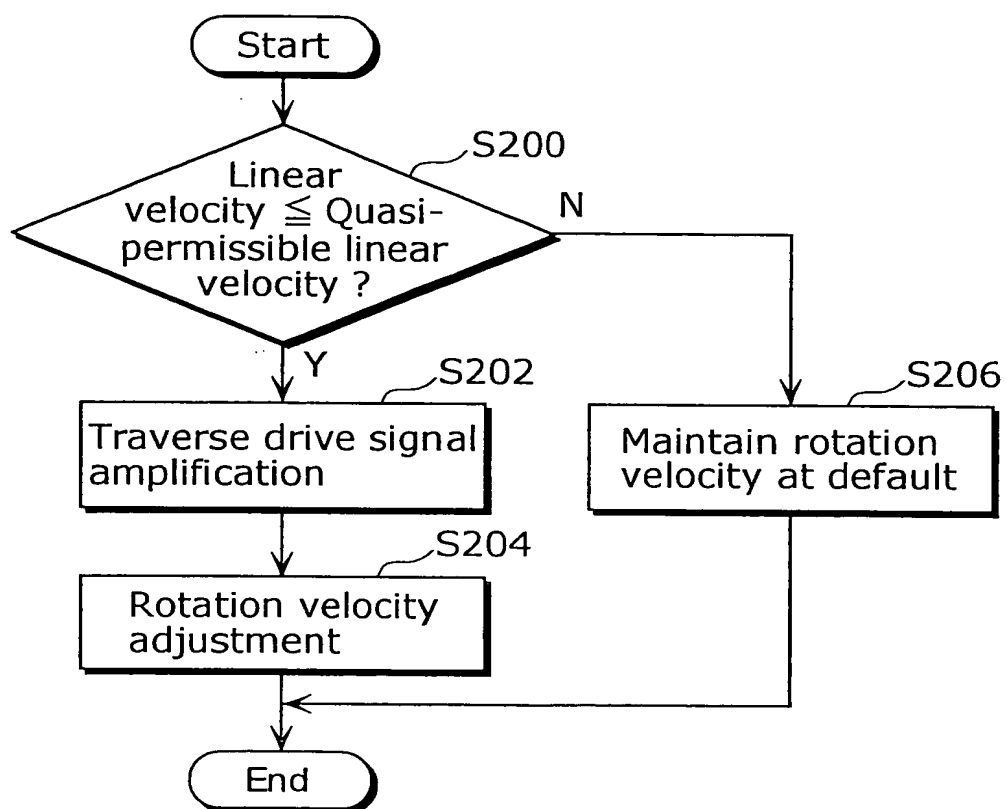


Fig. 21



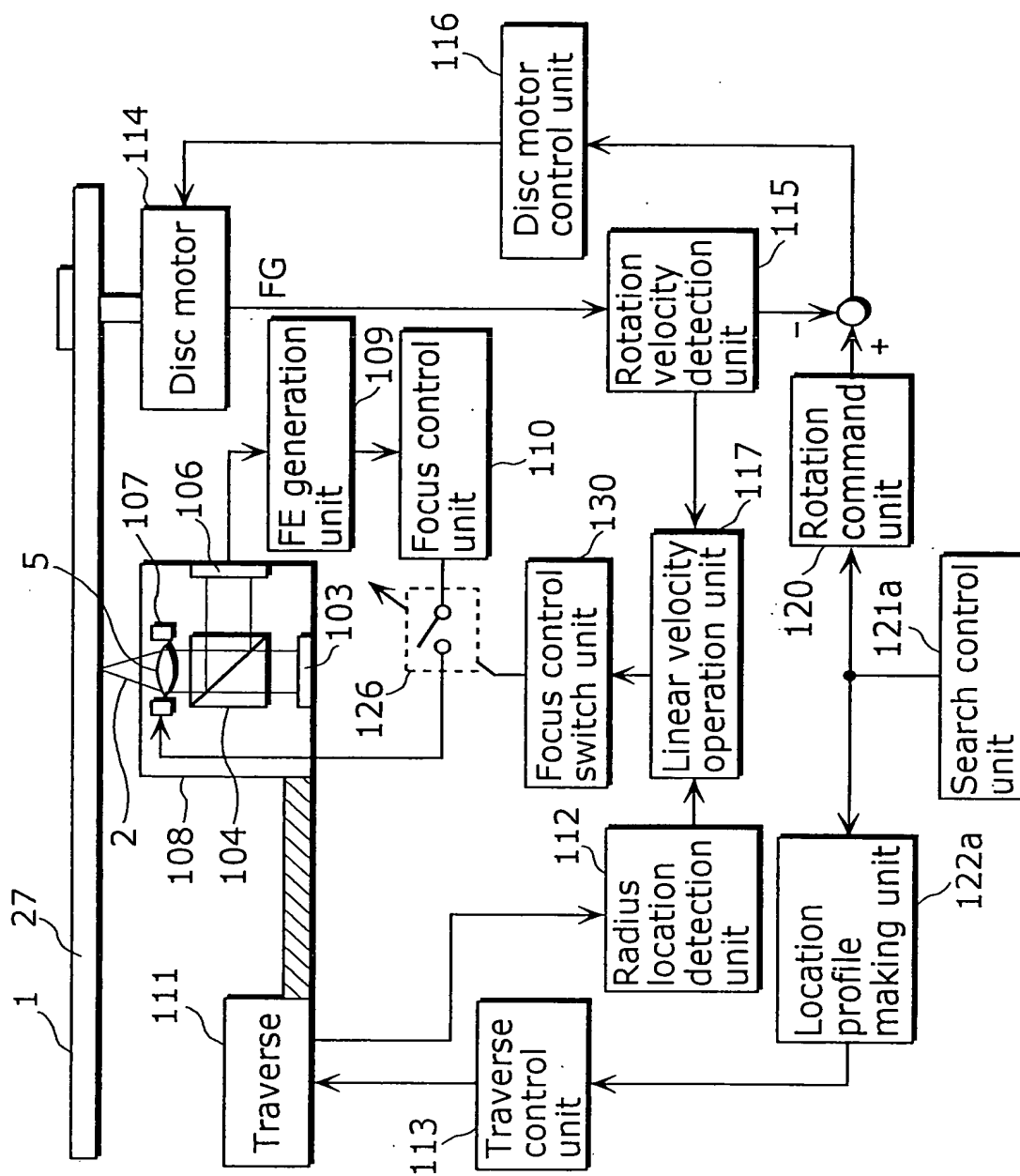


Fig. 22

Fig. 23

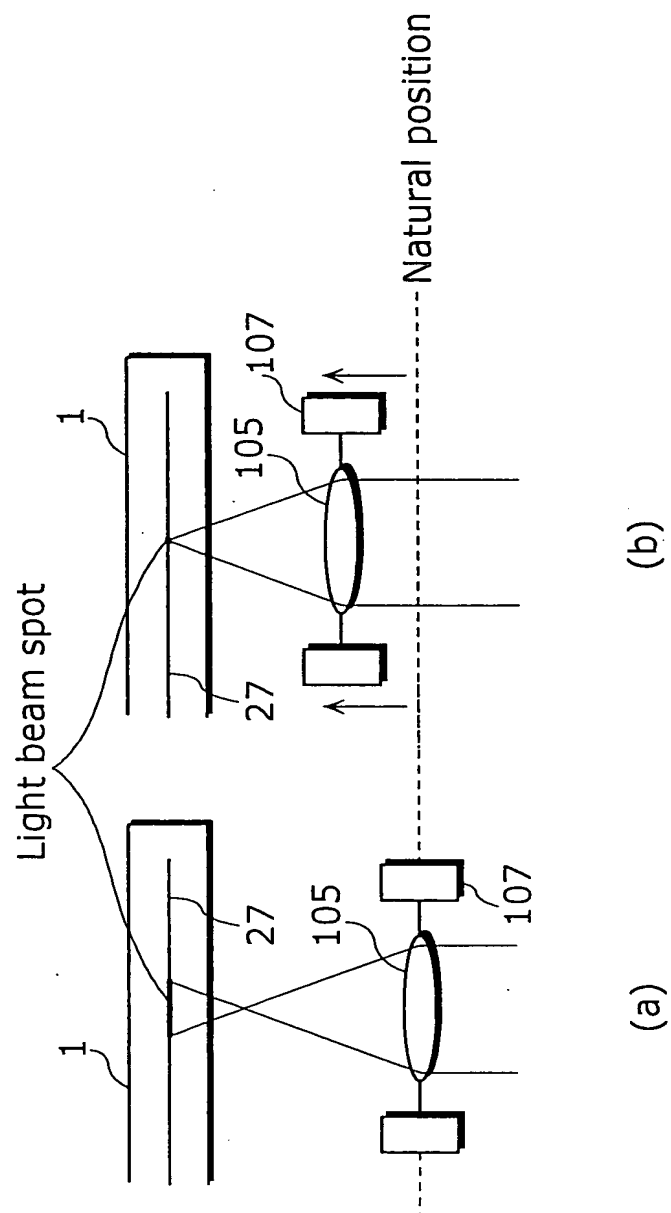


Fig. 24

